

Amendment 1 to AES31-2 - Audio-file transfer and exchange - Part 2: File Format for Transferring Digital Audio Data Between Systems of Different Type and Manufacture - Extended file format for audio to exceed 4 GByte

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Abstract

The 32-bit address space of a Wave file limits its maximum size to 4 GB. Some practical computer systems may impose a lower limit of 2 GB. This is not a significant obstacle for mono files at basic rate sampling frequencies, but the limitation becomes increasingly significant as the number of channels in the file is increased or when double- or quadruple-rate sampling frequencies are used. The Extended Broadcast Wave Format (BWF-E) file format described in this amendment is designed to be a compatible extension of the Broadcast Wave Format (BWF) already defined in AES31-2. It extends the maximum size capabilities of the RIFF/WAVE format by increasing its address space to 64 bits where necessary. BWF-E is also designed to be mutually compatible with the EBU T3306 "RF64" extended format.

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[Amend AES31-2-2006: Audio-file transfer and exchange - Part 2: File Format for Transferring Digital Audio Data Between Systems of Different Type and Manufacture to add the following text to clause 1, Scope:]

1 Scope

An optional extended format, BWF-E, supports 64-bit addressing to permit file sizes greater than 4 GBytes.

[Amend AES31-2-2006: Audio-file transfer and exchange - Part 2: File Format for Transferring Digital Audio Data Between Systems of Different Type and Manufacture to add the following items to clause 3, Definitions and abbreviations:]

3 Definitions and abbreviations

3.10

Broadcast Wave Format, Extended

BWF-E

an optional extended format that replaces a RIFF header with an RF64 header to support 64-bit addressing to permit file sizes greater than 4 GBytes

3.11

RF64

a structure equivalent to the RIFF file type supporting 64-bit addressing.

[Amend AES31-2-2006: Audio-file transfer and exchange - Part 2: File Format for Transferring Digital Audio Data Between Systems of Different Type and Manufacture to add the following item to annex B, Informative references:]

Annex B: Informative references

- 14 EBU Tech Document T3306: 2007-02; "RF64: An extended File Format for Audio"; European Broadcasting Union, Geneva.